

IN THE CLAIMS

Please amend the claims as follows:

- 1.-2. (Cancelled)
3. (Currently amended) A recording medium comprising:
a recording layer having a recording area in which information A can be recorded;
a protective film; and at least one of
a light transmission substrate;
~~and a light transmission protecting film and a recording area in which information~~
~~A is to be recorded;~~
wherein;
at least one of said protective film and said light transmission substrate is a or
said light transmission transmission layer and said light transmission layer is configured such
that protecting film, has a recording area in which information B is to can be recorded by at least
~~either therein as a change of refractive index, or a change of extinction coefficient, change of~~
transmittance or change of reflectance of said light transmission layer.
- 4.-6. (Cancelled)
7. (Currently amended) A recording medium according to claim 3, wherein said
light transmission substrate or said light transmission protecting film is a light transmission
recording material in which at least one of refractive index or extinction coefficient or
transmittance or reflectance is changed with irradiation of ultraviolet rays.
- 8.-10. (Cancelled)
11. (Current amended) A recording medium according to claim 3, wherein said light
transmission substrate or said light transmission ~~substrate~~ protecting film is a light transmission

recording material in which at least one of refractive index or extinction coefficient or by at least either a change of transmittance or a change of reflectance is changed with irradiation of electron beams.

12.-13. (Cancelled)

14. (Currently amended) A recording medium according to claim 3-~~or~~4, wherein said light transmission substance ~~recording material~~ is made of any one of resin substrates of polycarbonate resin, polyolefin resin, polymethyl methacrylate resin, epoxy resin and acrylic resin or glass substrate,

and said light transmission protecting film is made of polycarbonate resin, polyolefin resin, polymethyl methacrylate resin, epoxy resin, ultraviolet-curing resin, thermosetting resin, photopolymer resin or sheet made of glass or a coated film.

15.-16 (Cancelled)

17. (Currently Amended) A recording medium according to claim 3-~~or~~4, wherein said information B contains inherent identification information.

18. (Cancelled)

19. (Currently amended) A recording medium according to claim 3-~~or~~4, wherein said information B contains at least one of numeral, character, image and bar code.

20. (Cancelled)

21. (Currently amended) A recording medium according to claim 3-~~or~~4, wherein said information B contains at least one information of mark information, address information, group information, tracking information and data information.

22. (Cancelled)

23. (Currently amended) A recording medium according to claim 3-~~or~~4, wherein said information B contains inherent identification information and said inherent identification information contains at least one information of management information of recording medium, management information of recording information, recording disapproving information, reproduction disapproving information, true and false information of recording medium, recording number limiting information, reproduction number limiting information and user authentication information.

24. (Currently amended) A recording medium according to claim 3-~~or~~4, wherein said recording area of information A has information concerning said information B recorded thereon.

25. (Currently amended) A recording medium according to claim 3-~~or~~4, wherein said recording area of information A has information C concerning recording of said information B recorded thereon and said information C is more than any one of existence of recording of said information B, recording position, recording power and reproducing power.

26. (Currently amended) A recording medium according to claim 3-~~or~~4, wherein said recording area of said information A is a recording area in which said information A is to be recorded with irradiation of light having a wavelength λ_{ra} and said information A is to be reproduced with irradiation of light having a wavelength λ_{pa} ,

said light transmission substrate or said light transmission protecting film is a light transmission substrate or a light transmission protecting film in which said information B is to be recorded with irradiation of light having a wavelength λ_{rb} and said information B is to be reproduced with irradiation of light having a wavelength λ_{pb} , and

said light transmission substrate or said light transmission protecting film has transmittance of more than 50% relative to light having a recording wavelength λ_{ra} of said information A and light having a reproducing wavelength λ_{pa} of said information A.

27. (Currently amended) A recording medium according to claim 3-~~or~~4, wherein said recording area of said information A is a recording area in which said information A is to be recorded with irradiation of light having a wavelength λ_{ra} and said information A is reproduced with irradiation of light having a wavelength λ_{pa} ,

said light transmission substrate or said light transmission protecting film is a light transmission substrate or a light transmission protecting film in which said information B is recorded with irradiation of light having a wavelength λ_{rb} and said information B is to be reproduced with irradiation of light having a wavelength λ_{pb} , and

said light transmission substrate or said light transmission protecting film has transmittance less than 50% relative to light having said wavelength λ_{rb} at which said information B is recorded.

28. (Currently amended) A recording medium according to claim 3-~~or~~4, wherein said recording area of said information A is a recording area in which said information A is to be recorded with irradiation of light having a wavelength λ_{ra} and said information A is to be reproduced with irradiation of light having a wavelength λ_{pa} ,

said light transmission substrate or said light transmission protecting film is a light transmission substrate or a light transmission protecting film in which said information B is to be recorded with irradiation of light having a wavelength λ_{rb} and said information B is to be reproduced with irradiation of light having a wavelength λ_{pb} , and

said light transmission substrate or said light transmission protecting film has a transmittance of 50% or more relative to light having a wavelength λ_{pb} at which said information B is to be reproduced.

29. (Currently amended) A recording medium according to claim 3-~~or~~4, wherein said recording area of said information A is comprised of recording areas more than any one of a pit mark recording area, a dye recording area, a magnetic recording area, a magneto-optical recording area and a phase change recording area.

30. (Currently amended) A recording area according to claim 3-~~or~~4, wherein said recording area of said information A is comprised of a magneto-optical recording area and said magneto-optical recording area includes at least a reproducing layer and a recording layer.

31. (Currently amended) A recording area according to claim 3-~~or~~4, wherein said recording area of said information A is comprised of a magneto-optical recording area and said magneto-optical recording area is comprised of a magnetic super-resolution reproducing magneto-optical recording layer or a magnetic domain enlarging reproducing magneto-optical recording layer.

32. (Currently amended) An optical recording medium according to claim 3-~~or~~4, wherein said recording area of said information A is a recording area in which said information A is to be recorded with irradiation of light having a wavelength λ_{ra} and said information A is to be reproduced with irradiation of light having a wavelength λ_{pa} ,

said light transmission substrate or said light transmission protecting film is a light transmission substrate or a light transmission protecting film in which said information B is to be recorded with irradiation of light having a wavelength λ_{rb} and said information B is to be reproduced with irradiation of light having a wavelength λ_{pb} , and

said λ_{ra} , λ_{pa} , λ_{rb} , λ_{pb} satisfy any one relationship or more of $\lambda_{ra} = \lambda_{pa}$, $\lambda_{ra} \neq \lambda_{pa}$, $\lambda_{rb} = \lambda_{pb}$, $\lambda_{rb} \neq \lambda_{pb}$, $\lambda_{ra} = \lambda_{rb}$, $\lambda_{ra} \neq \lambda_{rb}$, $\lambda_{pa} = \lambda_{pb}$, $\lambda_{pa} \neq \lambda_{pb}$, $\lambda_{ra} = \lambda_{pb}$, $\lambda_{ra} \neq \lambda_{pb}$, $\lambda_{pa} = \lambda_{rb}$, $\lambda_{pa} \neq \lambda_{rb}$.

33. (Currently amended) An optical recording medium according to claim 3-~~or~~4, wherein said recording area of said information A is a recording area in which information A is

to be reproduced with irradiation of light having a wavelength λ_{pa} or information A is to be reproduced without irradiation of light,

said light transmission substrate or said light transmission protecting film is a light transmission substrate or a light transmission protecting film in which said information B is to be recorded with irradiation of light having a wavelength λ_{rb} , and

said information B is to be reproduced with irradiation of light having a wavelength λ_{pb} and said λ_{pa} , λ_{rb} , λ_{pb} satisfy any one relationship or more of $\lambda_{rb} = \lambda_{pb}$, $\lambda_{rb} \neq \lambda_{pb}$, $\lambda_{pa} = \lambda_{pb}$, $\lambda_{pa} \neq \lambda_{pb}$, $\lambda_{pa} = \lambda_{rb}$, $\lambda_{pa} \neq \lambda_{rb}$.

34. (Cancelled)

35. (Currently amended) A recording medium according to claim 3-~~or~~4, wherein said information B is to be recorded by at least any one of a change of multi-value refractive index or a change of multi-value extinction coefficient or by at least any one of a change of multi-value transmittance or multi-value reflectance.

36. (Cancelled)

37. (Currently amended) A recording medium according to claim 3-~~or~~4, wherein said information B is to be recorded by at least any of a continuous change of multi-value refractive index or a continuous change of multi-value extinction coefficient or by at least any of a continuous change of multi-value transmittance or a continuous change of multi-value reflectance.

38. (Cancelled)

39. (Currently amended) A recording medium according to claim 3-~~or~~4, wherein said information B is to be recorded by at least any one of a change of multi-value refractive index or a change of multi-value extinction coefficient or a change of multi-value transmittance

or a change of multi-value reflectance recorded by at least one of changes of ultraviolet ray irradiation time, ultraviolet ray irradiation time and ultraviolet ray irradiation light amount.

40. (Cancelled)

41. (Currently amended) A recording medium according to claim 3-~~or~~4, wherein said information B is to be recorded by at least any one of a continuous change of multi-value refractive index or a continuous change of multi-value extinction coefficient or a continuous change of multi-value transmittance or a continuous change of multi-value reflectance recorded by at least one of changes of ultraviolet ray irradiation time, ultraviolet ray irradiation time and ultraviolet ray irradiation light amount.

42. (Currently amended) A recording medium according to claim 3-~~or~~4, wherein ~~said~~ inherent identification information is to be recorded by a combination of said information A and said information B.

43. (Currently amended) A recording medium according to claim 3-~~or~~4, wherein ~~said~~ inherent identification information is to be recorded by a combination of said information A and said information B and said inherent identification information contains at least one information of management information of recording medium, management information of recording information, recording disapproving information, reproduction disapproving information, true and false information of recording medium, recording number limiting information, reproduction number limiting information and user authentication information.

44.-93. (Withdrawn)

94. (New) A recording medium comprising:
a recording layer having a recording area in which information A is recorded;
a protective film; and

a substrate;

wherein;

at least one of said protective film and said substrate is a light transmissive layer and said light transmissive layer is configured such that information B is recorded therein as a change of refractive index, change of extinction coefficient, change of transmittance or change of reflectance of said light transmissive layer.